

FIG. 1

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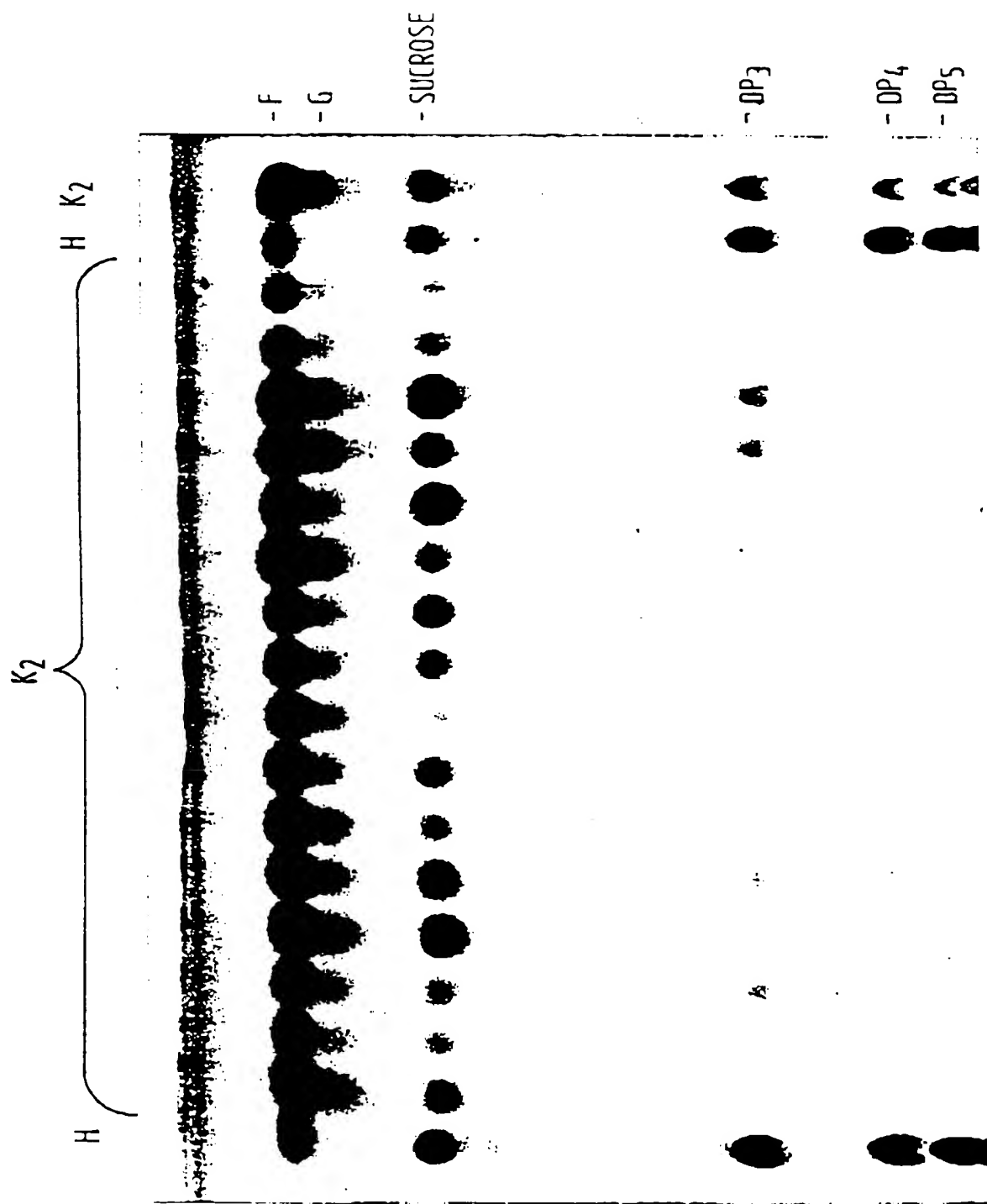


FIG. 2

SDS-PAGE VAN SST UIT UIENZAAD

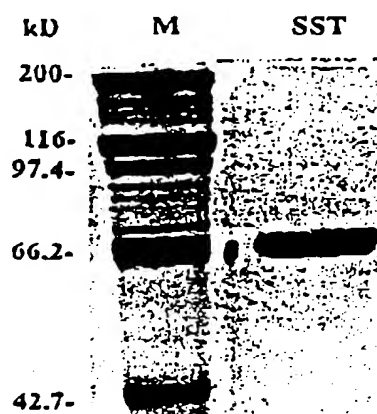
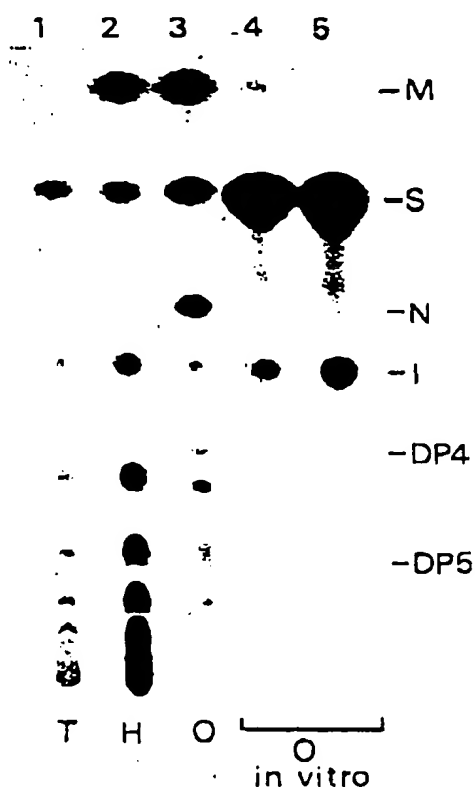


FIG. 3

FIG. 4

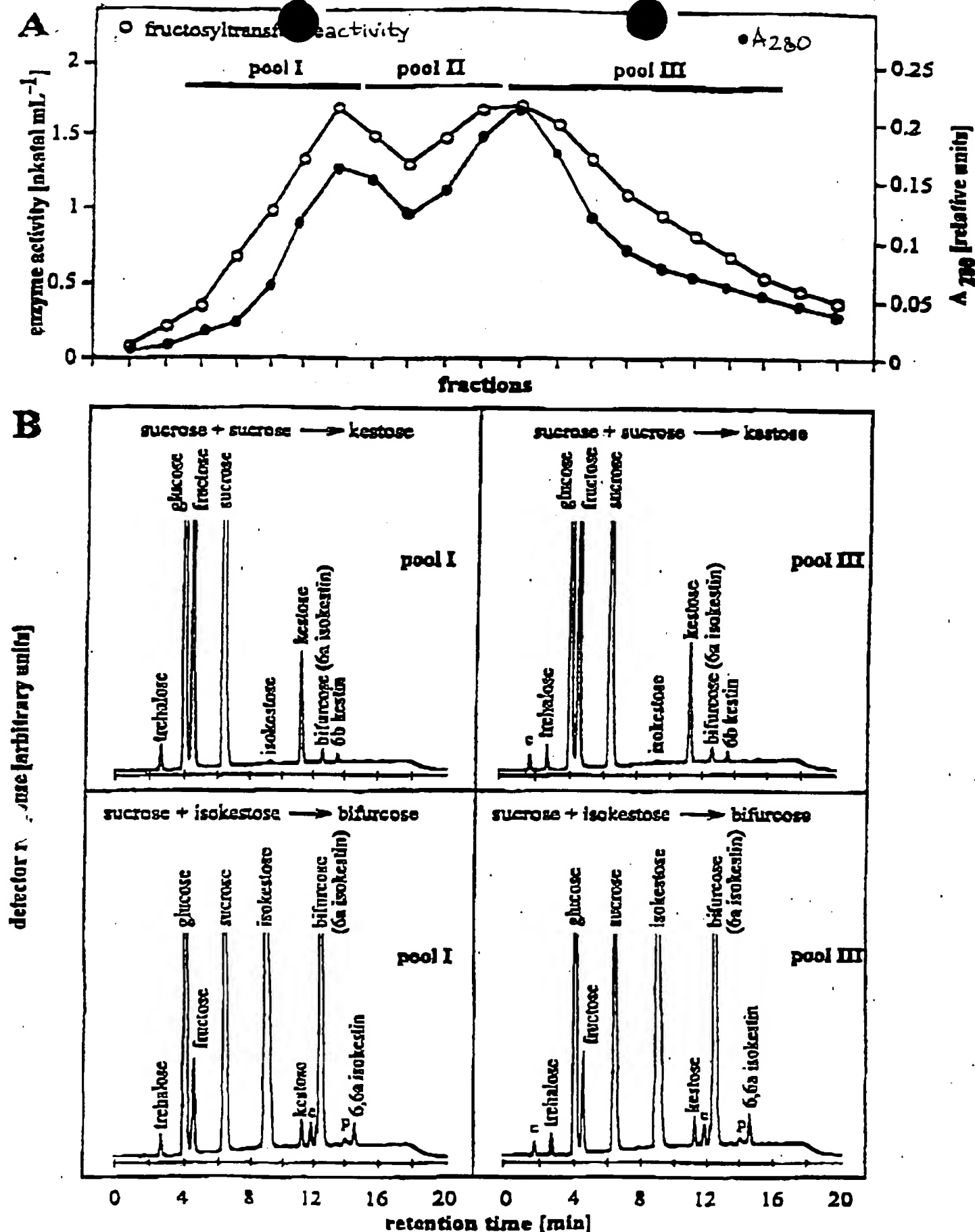


Fig. 5

Fig 2

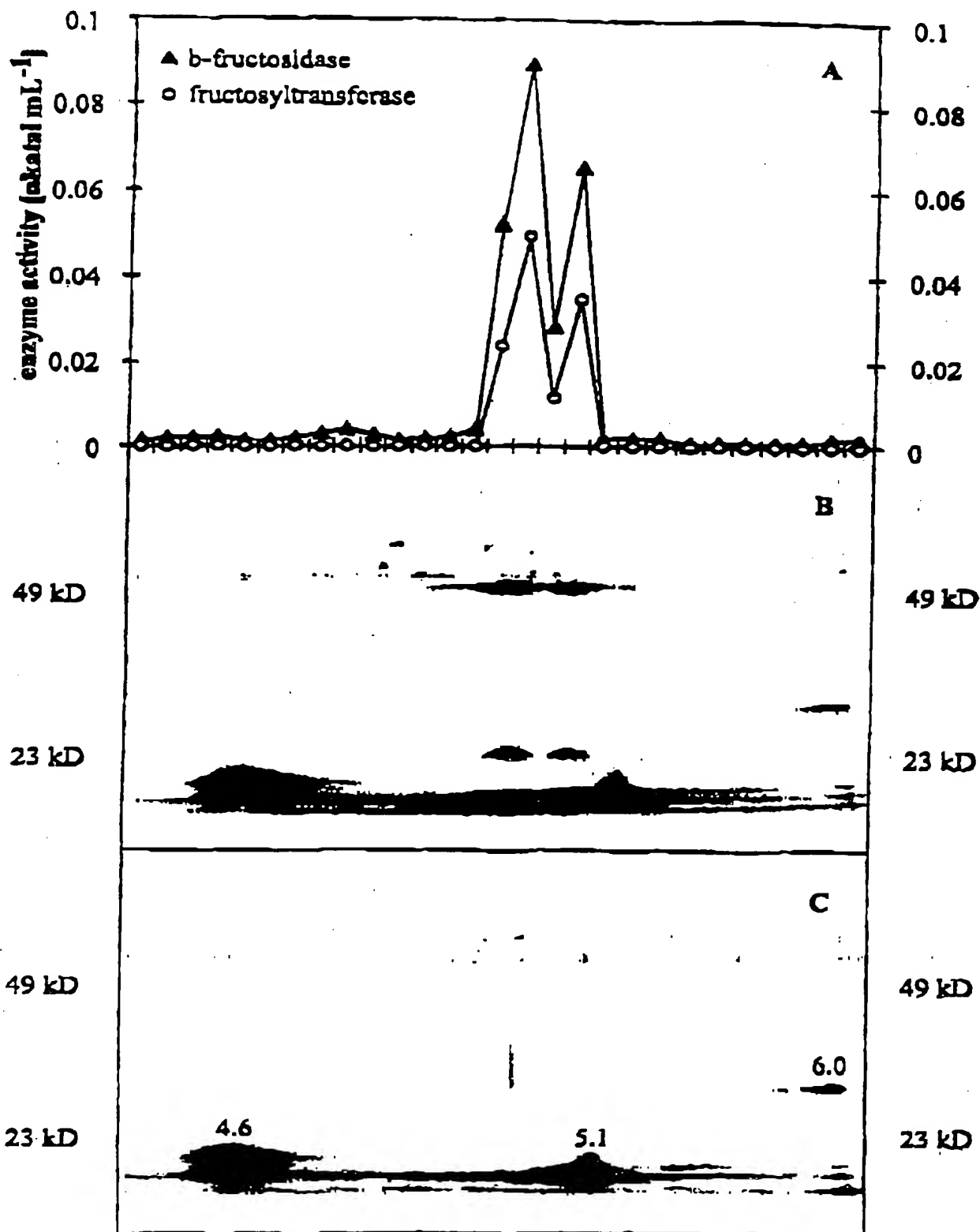
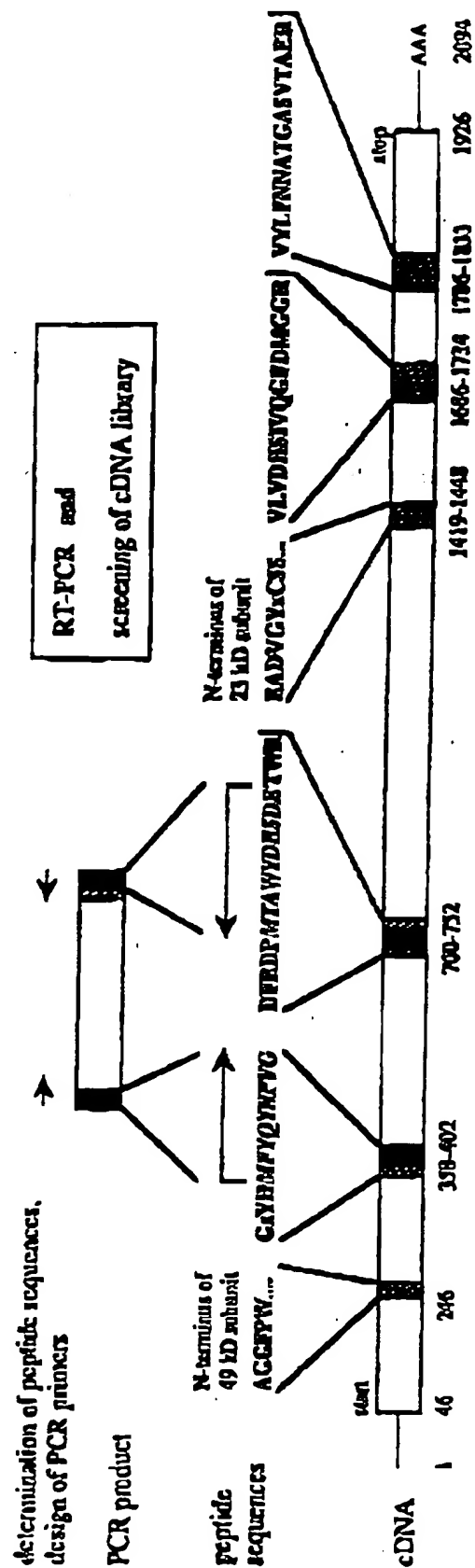


Fig. 6

Fig. 7



Appendix

Sequence of cDNA encoding 6-SFT from barley

GCTCAGAATCTACCAAACCTCTCGGAGTTGACGAGCGGCGCCGCATGGGGTCACACGGC
MetGlySerHisGly

AAGCCACCGCTACCGTACGCCTACAAGCCGCTGCCCTCGGACGCGCGCCGACGGTAAGCGG
LysProProLeuProTyrAlaTyrLysProLeuProSerAspAlaAlaAspGlyLysArg

ACCGCTGCATGAGGTGGTCCGCGTGTGCCACCGTGTGACGGCCCTCGGCCATGGCGGTG
ThrGlyCysMetArgTrpSerAlaCysAlaThrValLeuThrAlaSerAlaMetAlaVal

GTGGTGGTGGCGGCCACGCTCCTGGCGGGATTGAGCATGGAGCAGGCCGTCCACGAGGAG
ValValValGlyAlaThrLeuLeuAlaGlyLeuArgMetGluGlnAlaValAspGluGlu

GCGGCGCGCGCGGGTTCCTGGAGCAACGAGATCCTGCACTGGCAGCGCCAGCGGTAC
AlaAlaAlaGlyGlyPheProTrpSerAsnGluMetLeuGlnTrpGlnArgSerGlyTyr

CATTTCCAGACGGCCAAAGAACTACATGAGCGATCCCAACGGCCTGATGTATTACCGTGGG
HisPheGlnThrAlaLysAsnTyrMetSerAspProAsnGlyLeuMetTyrTyrArgGly

TGGTACCACATGTTCTACCACTACAACCGGTGGGCACCGACTGGGACGACGGCATGGAG
TrpTyrHisMetPheTyrGlnTyrAsnProValGlyThrAspTrpAspAspGlyMetGlu

TGGGGCCACGCGGTGTCCCGGAACCTTGTCCAATGGCGCACCTCCCTATCGCCATGGTG
TrpGlyHisAlaValSerArgAsnLeuValGlnTrpArgThrLeuProIleAlaMetVal

GCCGACCAGTGGTACGACATCCTCGAAGTCTCTCGGGCTCCATGACGGTGCTACCCAAC
AlaAspGlnTrpTyrAspIleLeuGlyValLeuSerGlySerMetThrValLeuProAsn

GGGACGGTCATCATGATCTACACGGGCGCCACCAACGCCTCCCGCGTGGAGGTCCAGTGC
GlyThrValIleMetIleTyrThrGlyAlaThrAsnAlaSerAlaValGluValGlnCys

ATCGCCACCCCGGCGGACCCCAACGACCCCTCCTCCGCGGTGGACCAAGCACCCCGCC
IleAlaThrProAlaAspProAsnAspProLeuLeuArgArgTrpThrLysHisProAla

AACCCCGTCATCTGGTCCCGCGCGGGGTGGGCACCAAGGATTTCCGAGACCCGATGACC
AsnProValIleTrpSerProProGlyValGlyThrLysAspPheArgAspProMetThr

GCCTGGTACGACGAGTCCGACGAGACATGGCGCACCTCCTCGGGTCCAAGGACGACCAC
AlaTrpTyrAspGluSerAspGluThrTrpArgThrLeuLeuGlySerLysAspAspHis

GACGGCCACCAACGACGGCATCGCCATGATGTACAAGACCAAGGACTTCCTCACTACGAG
AspGlyHisHisAspGlyIleAlaMetMetTyrLysThrLysAspPheLeuAsnTyrGlu

CTCATCCCGGGCATCTTGACCCGGGTGGTGGCGACCGCGAGTGGGAGTGCATCGACTTC
LeuIleProGlyIleLeuHisArgValValArgThrGlyGluTrpGluCysIleAspPhe

TACCCCGTCCGCGGAGAGACGACGACAACTCGTCGGAGATGCTGCACGTGTTGAAGGCG
TyrProValGlyArgArgSerSerAspAsnSerSerGluMetLeuHisValLeuLysAla

AGCATGGACGACGAACGGCACGACTACTACTCGCTGGGCACGTACGACTCGGCGGCCAAC
SerMetAspAspGluArgHisAspTyrTyrSerLeuGlyThrTyrAspSerAlaAlaAsn

ACGTGGACGCGCCATCGACCCGGAGCTCGACTTGGGGATCGGGCTGACATACGACTGGGGA
ThrTrpThrProIleAspProGluLeuAspLeuGlyIleGlyLeuArgTyrAspTrpGly

AAGTTTTATGCGTCCACCTCCTTCTATGATCCGCGCAAGAACCGCGCGTGCTCATGGGG
LysPheTyrAlaSerThrSerPheTyrAspProAlaLysAsnArgArgValLeuMetGly

TACGTGGCGGAGGTCCGACTCCAAGCGGGCTGATGTCCTCAAGGGATGGGCTTCATTGAG
TyrValGlyGluValAspSerLysArgAlaAspValValLysGlyTrpAlaSerIleGln

TCAGTTCCTAGGACGGTGGCTCTGGATGAGAAGACCCGGACGAACCTCCTGCTCTGGCCC
SerValProArgThrValAlaLeuAspGluLysThrArgThrAsnLeuLeuLeuTrpPro

GTTGAGGAGATCGAGACCCTCCGCTCAATGCCACGGAAGTACCGACGTTACCATTAAC

Fig. 8

ValGluGluIleGluThrLeuArgLeuAsnAlaThrGluLeuThrAspValThrIleAsn
ACTGGCTCCGTCATCCATATCCCGCTCCGCCAAGGCACTCAGGCTCGACATGCGGAGGCC
ThrGlySerValIleHisIleProLeuArgGlnGlyThrHisAlaArgHisAlaGluAla
TCTTCCACCTTGATGCTTCCGCCGTGGCTGCCCTCAACGAGGCCGATGTGGGCTACAAC
SerPheHisLeuAspAlaSerAlaValAlaAlaLeuAsnGluAlaAspValGlyTyrAsn
TGCACTAGCAGCGCGCGCGCTGTTAACCGCGCGCGCTAGGCCCTTCGGCCTCCTCGTC
CysSerSerSerGlyGlyAlaValAsnArgGlyAlaLeuGlyProPheGlyLeuLeuVal
CTCGCCGCCGGTGACCGCGGTGGCGAGCAAACGGCGGTCTACTTCTACGTCTCTAGGGCC
LeuAlaAlaGlyAspArgArgGlyGluGlnThrAlaValTyrPheTyrValSerArgGly
CTTGACGGAGGCCTCCACACAGCTTCTGCCAAGATGAGCTGAGATCGTCACGAGCCAAG
LeuAspGlyGlyLeuHisThrSerPheCysGlnAspGluLeuArgSerSerArgAlaLys
GATGTGACCAAGCGTGTCATCGGGAACACCGTGCCGGTGCTCGACGGTGAGGCTTGTCA
AspValThrLysArgValIleGlySerThrValProValLeuAspGlyGluAlaLeuSer
ATGAGGGTGCTCGTGGATCACTCCATCGTGACGGGCTTCGACATGGGCGGGAGGACCACG
MetArgValLeuValAspHisSerIleValGlnGlyPheAspMetGlyGlyArgThrThr
ATGACCTCGCGGGTGACCGATGGAGTCGTATCAGGAGGCAAGAGTCTACTTGTTC AAC
MetThrSerArgValTyrProMetGluSerTyrGlnGluAlaArgValTyrLeuPheAsn
AACGCCACCGGTGCCAGCGTGACCGCGCAAAGGCTGGTGGTGCACGAGATGGACTCGGCA
AsnAlaThrGlyAlaSerValThrAlaGluArgLeuValValHisGluMetAspSerAla
CACAAACCAGCTCTCCAATGAGGACGATGGCATGTATCTTCATCAAGTCTTGAATCTCGT
HisAsnGlnLeuSerAsnGluAspAspGlyMetTyrLeuHisGlnValLeuGluSerArg
CATTAAAGCTACATTGGATCAAGAAGATCACCAGGGAAAGGCCAATTCATACATAAAT
His
CGAATCATTCTGCACAACCTCGCTTGCAGCATGCATTGAAACATCTGTATTTGGATCATC
TTCTTCATTTATGTCATAGTGAAGTATATTACTTTGTAAAAAAAAAAAAAAAAAAAA

Fig. 9

	86	115	125	132	157	164	220	229	280	290	343	353
H.V. 6sft	HFQtaKUNY.MEDPENGIMY..YRGVYHMFYQYNP	MEWGHAVS			..LSGATVVL	DERDPMWAWY			eWECIDFYPVG		DuGX.FYASTSF	
V.I. Inv	HFQPEKNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
D.C. Inv	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
L.e. Inv	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
D.C. cuInv	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
A.S. Inv	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
E.C. Inv	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
S.m. Scrib	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
B.p. lela	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
B.s. Sacc	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
K.m. Ind	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
S.C. Inv1	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
S.O. Inv	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
A.n. Inv	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
B.a. SacB	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
B.s. SacB	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
S.m. SacB	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	
Z.m. Levu	HFQPNQNW.MNDPMPHY..YKGMVHMFYQYNP	IVWGHAVS			..WLGATIL	DPDPTTANL			MWECVDFPVS		DYGi.FYASKtF	

I

III

II

IV

V

Fig. 10

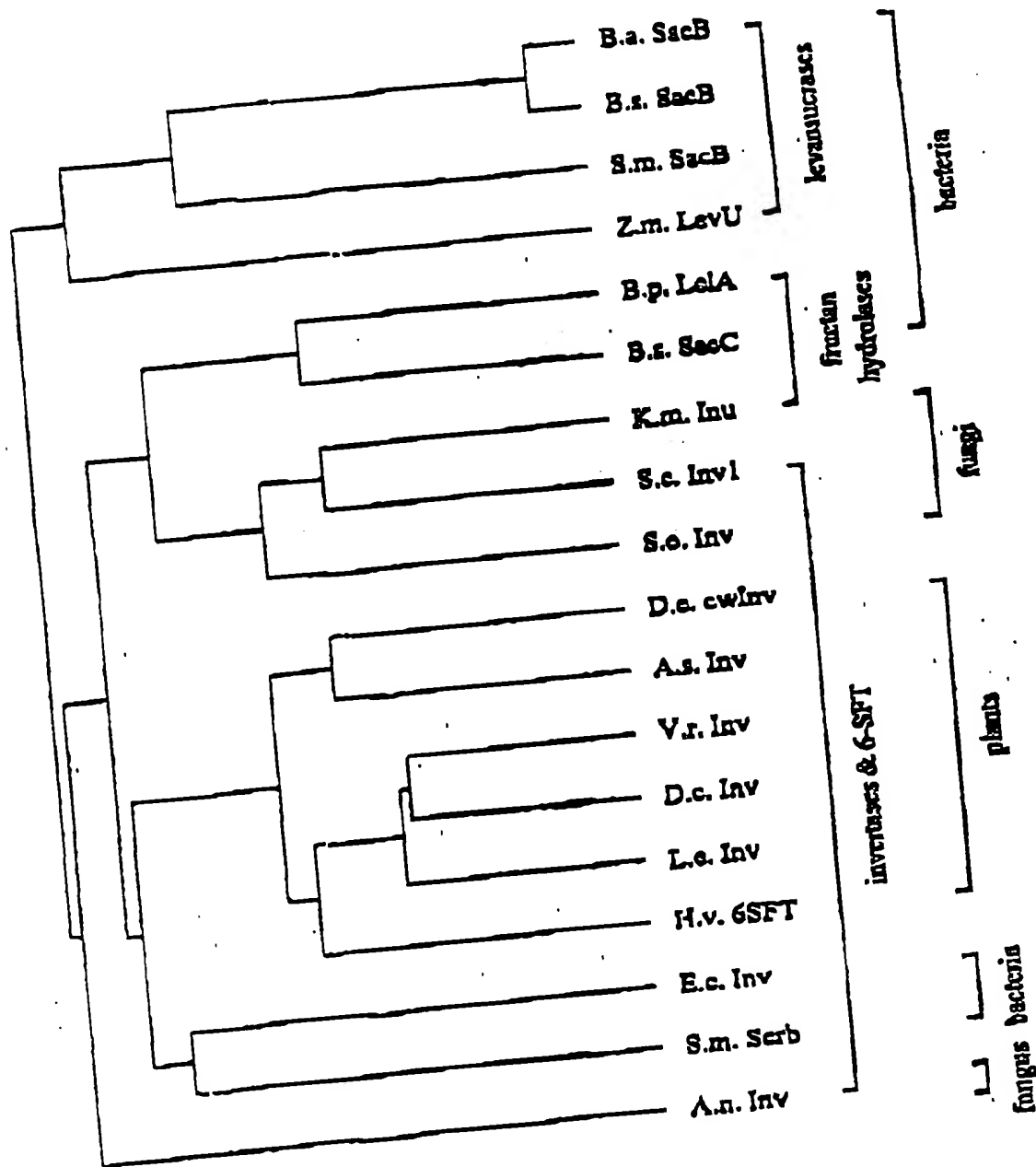
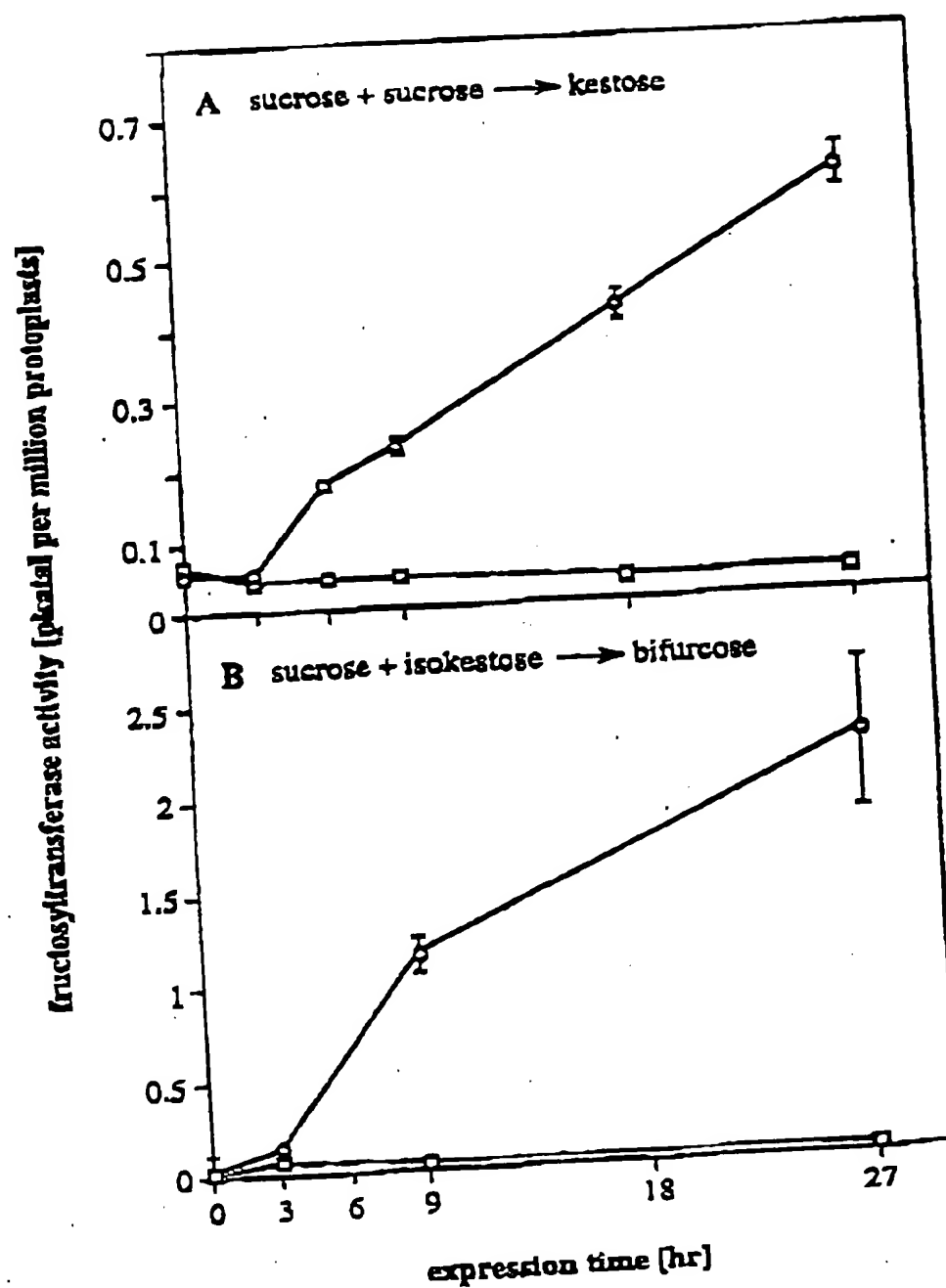


Fig. 11



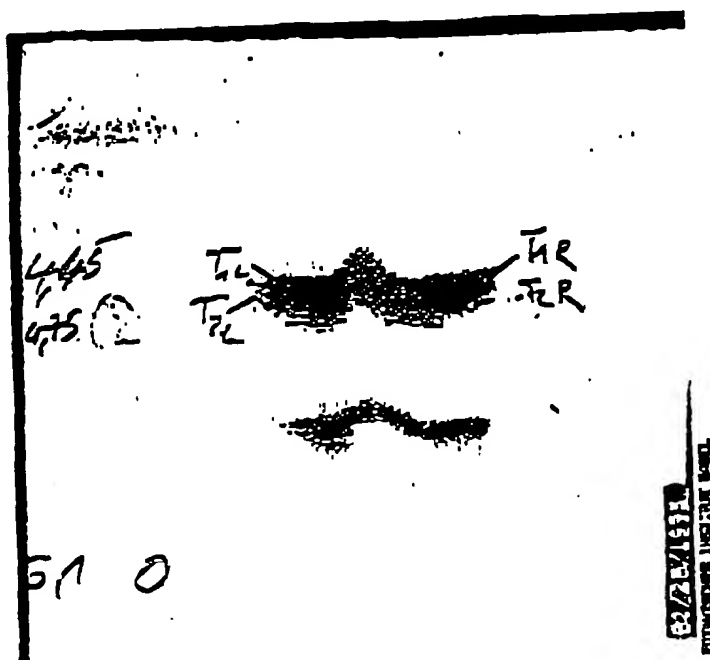


Fig. 12

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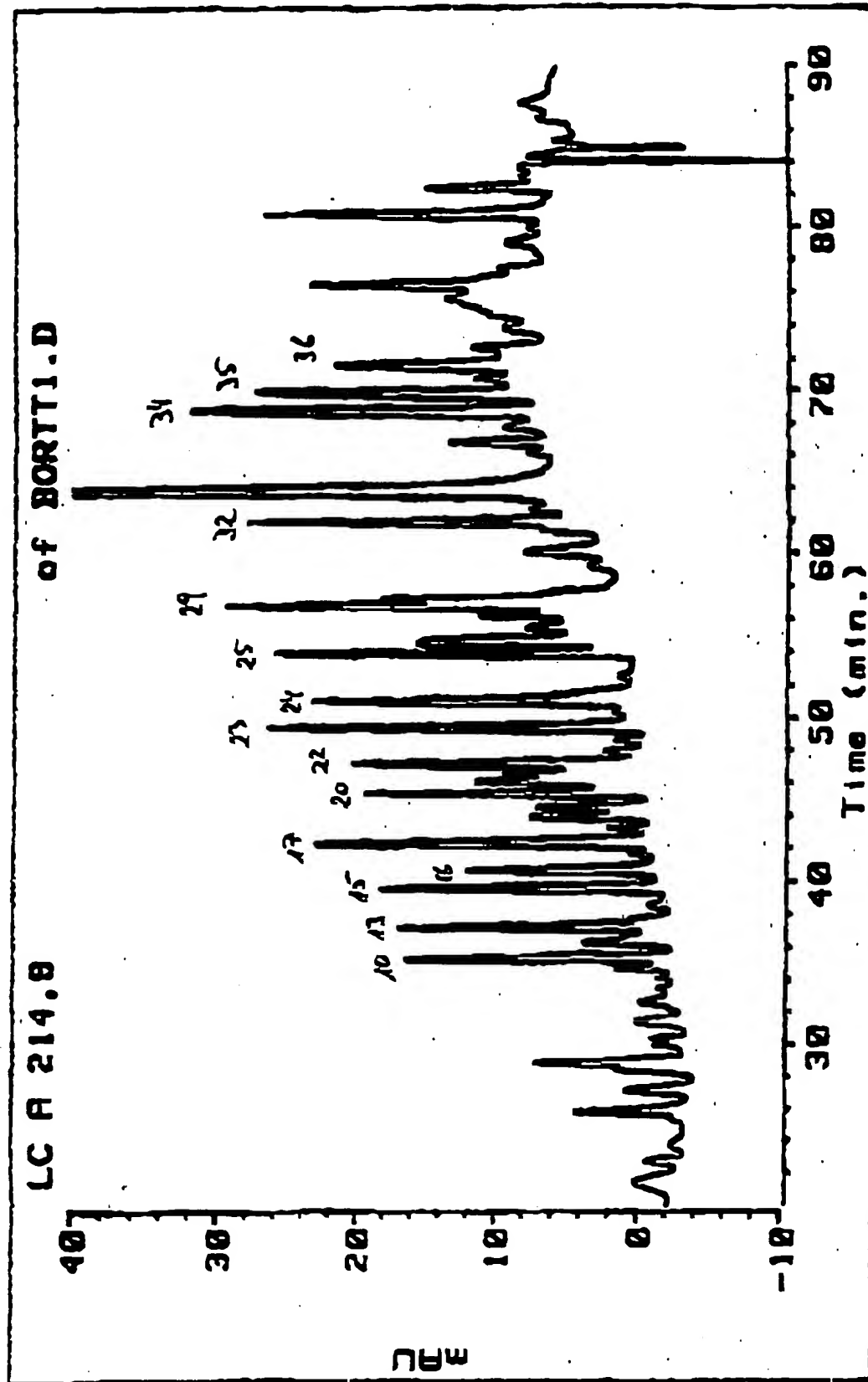


Fig. 13

1.2.35 Port 12 T2

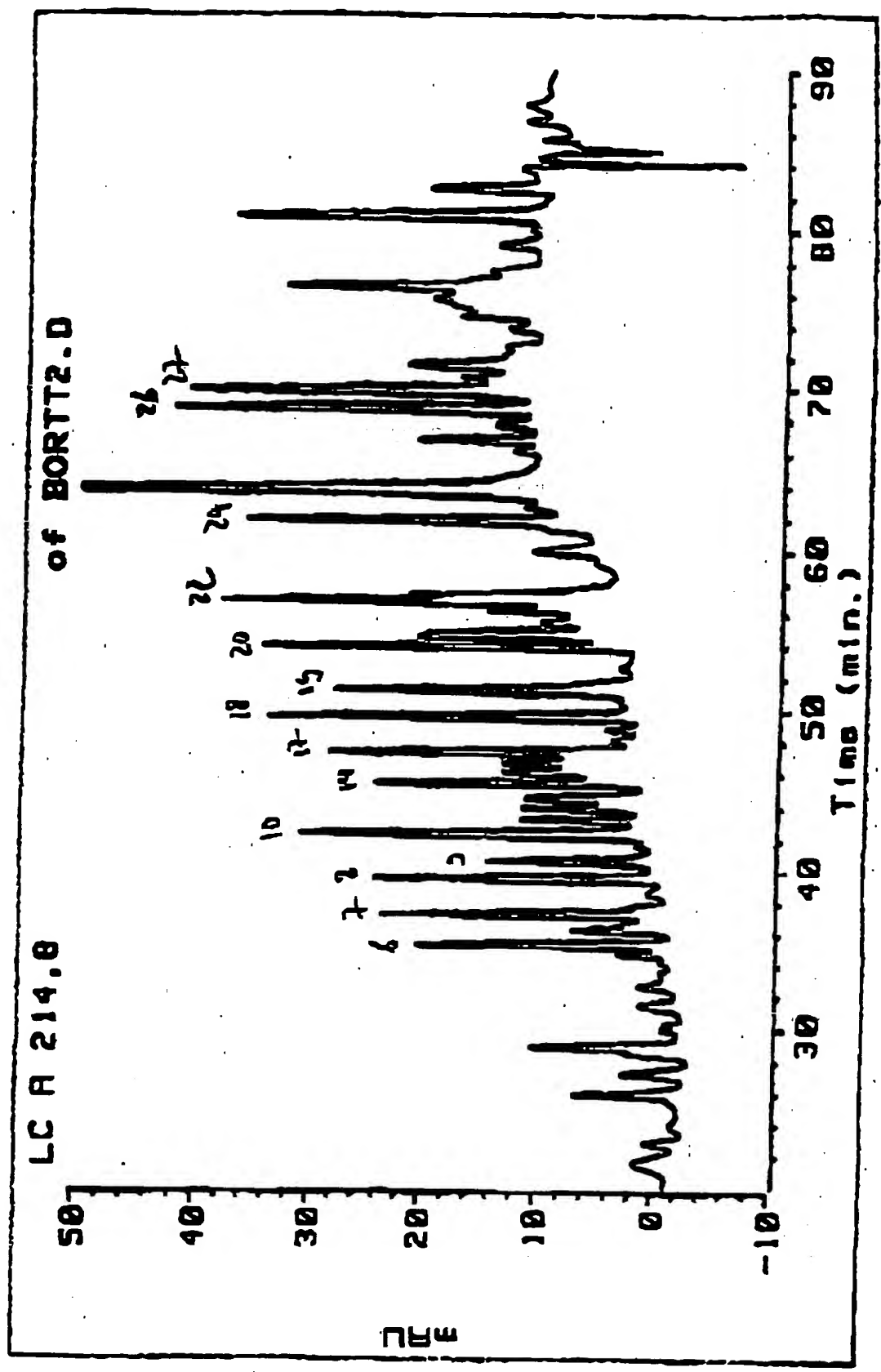


Fig. 14